# WEED ABSTRACTS

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# WEED ABSTRACTS

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UNDER THE DIRECTION OF J.D. FRYER

The journal is published monthly by the Commonwealth Agricultural Bureaux as one of a series of abstract journals covering the major branches of agricultural science.

The object of *Weed Abstracts* is to provide factual summaries and reports of the world scientific and technical literature on weeds, weed control and allied subjects as a means of enabling readers to keep abreast of current developments and to act as a concise source of reference.


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# WEED ABSTRACTS

## Volume 22

## CONTENTS


| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BSTRACTS | | | | | | | | | | | | | |
| ENERALIA ... ... ... ... ... ... | 1 | 29 | 43 | 59 | 79 | 103 | 131 | 159 | 205 | 235 | 263 | 291 |
| NNUAL FIELD CROPS ... ... ... ... | 1 | 29 | 43 | 59 | 79 | 104 | 133 | 159 | 205 | 235 | 263 | 291 |
| Cereals ... ... ... ... ... ... | 1 | 29 | 43 | 59 | 80 | 105 | 133 | 160 | 205 | 235 | 263 | 294 |
| Legumes ... ... ... ... ... ... | 3 | 30 | 45 | 61 | 82 | 109 | 135 | 164 | 208 | 237 | 265 | 296 |
| Root crops ... ... ... ... ... ... | 4 | 30 | 46 | 62 | 83 | 110 | 137 | 166 | 208 | 238 | 266 | 296 |
| Kale ... ... ... ... ... ... ... | – | – | – | – | – | – | – | 167 | 209 | – | – | 298 |
| Fibre and oil-seed crops ... ... ... | 4 | 30 | 47 | 62 | 84 | 111 | 138 | 167 | 209 | 238 | 267 | 298 |
| Other crops ... ... ... ... ... | 5 | – | 47 | – | – | 111 | 139 | 168 | – | – | 268 | 298 |
| RASSLAND AND HERBAGE CROPS ... | | 31 | 47 | 62 | 84 | 111 | 139 | 168 | 210 | 239 | 268 | 299 |
| Cultivated grasslands and pastures ... ... | 5 | 31 | 47 | 62 | 84 | 111 | 139 | 168 | 210 | 239 | 268 | 299 |
| Legumes ... ... ... ... ... ... | 5 | 31 | 47 | 62 | 84 | 112 | – | 169 | 210 | 240 | 268 | 299 |
| Rangelands and rough grazings ... ... | 6 | – | 47 | 62 | 85 | 113 | 139 | 169 | 211 | 241 | 269 | 299 |
| EGETABLE CROPS ... ... ... ... | | 31 | 48 | 64 | 85 | 113 | 139 | 170 | 211 | 241 | 269 | 300 |
| General ... ... ... ... ... ... | 6 | 31 | 48 | 64 | 85 | 113 | 139 | 170 | 211 | 241 | 296 | 300 |
| Herbs ... ... ... ... ... ... | – | – | – | – | – | – | – | 173 | – | – | – | – |
| RNAMENTALS ... ... ... ... ... | | 31 | 48 | 64 | 86 | 116 | 140 | 173 | 213 | 242 | 271 | 302 |
| Flowers, shrubs and trees ... ... ... | 8 | 31 | 48 | 64 | 86 | 116 | 140 | 173 | 213 | 242 | – | 302 |
| Lawns and turf ... ... ... ... ... | 8 | – | 49 | 65 | 86 | 117 | 140 | 174 | 213 | 243 | 271 | – |
| RUIT CROPS ... ... ... ... ... | | 32 | 49 | 65 | 86 | 117 | 141 | 175 | 214 | 243 | 272 | 303 |
| Small fruits and vines ... ... ... ... | 8 | 32 | – | 65 | 87 | 117 | 141 | 175 | 214 | 243 | 272 | 303 |
| Tree fruits ... ... ... ... ... ... | 8 | – | 49 | 66 | 88 | 118 | 141 | 177 | 215 | 244 | 273 | 303 |
| LANTATION CROPS | | 32 | | 66 | | 118 | | | 215 | | | 304 |
| General ... ... ... ... ... ... | 9 | 32 | 49 | 66 | 88 | 118 | 142 | 178 | 215 | 244 | 273 | 304 |
| Other perennial crops ... ... ... ... | – | – | – | – | 89 | – | 143 | – | 216 | 245 | – | – |
| ORESTS ... ... ... ... ... ... | 10 | 32 | – | 66 | 89 | 119 | 143 | 179 | 216 | 246 | 274 | 305 |
| OODY WEEDS ... ... ... ... ... | 10 | 32 | – | 66 | 89 | 119 | 143 | 179 | 216 | 246 | 274 | 305 |
| QUATIC WEEDS ... ... ... ... ... | 10 | 32 | 50 | 67 | 90 | 119 | 143 | 180 | 216 | 246 | 275 | 306 |
| THER WEEDS ... ... ... ... ... | | 32 | 50 | 67 | 90 | 119 | 144 | 181 | 217 | 246 | 275 | 307 |
| Miscellaneous ... ... ... ... ... | 11 | 32 | 50 | 67 | 90 | 119 | 144 | 181 | 217 | 246 | 275 | 307 |
| Non-crop situations ... ... ... ... | 12 | 33 | 50 | 68 | 91 | – | 145 | 182 | 218 | 247 | 277 | 308 |
| Poisonous weeds ... ... ... ... ... | 12 | 33 | 51 | 68 | 91 | 120 | 145 | 183 | 218 | – | – | 309 |
| EED BIOLOGY ... ... ... ... ... | | 33 | 51 | 68 | 91 | 120 | 145 | 183 | 218 | 247 | 277 | 309 |
| Biology of weed cryptogams ... ... ... | – | – | – | – | – | 120 | 145 | 183 | 218 | – | 277 | – |
| Biology of phanerogamous weeds ... ... | 12 | 33 | 51 | 68 | 91 | 120 | 146 | 183 | 218 | 247 | 278 | 309 |
| Weed identification ... ... ... ... | 13 | 34 | 51 | – | 92 | 121 | 147 | 185 | 220 | 249 | 278 | 310 |
| Weeds in relation to their environment ... | 13 | 34 | 51 | 69 | 92 | 121 | 147 | 185 | 220 | 249 | 279 | 311 |
| Weed anatomy ... ... ... ... ... | 15 | 35 | 53 | – | – | – | 149 | 188 | 221 | – | 280 | 312 |
| Parasitic weeds ... ... ... ... ... | 16 | 35 | 53 | 71 | 93 | 122 | 149 | 188 | 221 | 251 | 280 | 312 |
| Weed/predator/disease relationships ... | 16 | 35 | 53 | 71 | 93 | 123 | 149 | 189 | 222 | 251 | 281 | 313 |
| HYSIOLOGY ... ... ... ... ... | 16 | 36 | 53 | 71 | 93 | 123 | 150 | 190 | 222 | 252 | 281 | 314 |
| ERBICIDES ... ... ... ... ... ... | | 37 | 55 | 73 | 96 | 125 | 151 | 194 | 227 | 255 | 285 | 318 |
| Chemistry and properties ... ... ... | 21 | 37 | 55 | 73 | 96 | 125 | 151 | 194 | 227 | 255 | 285 | 318 |
| Analysis and residues ... ... ... ... | 21 | 38 | 55 | 73 | 96 | 126 | 151 | 195 | 228 | 256 | 282 | 318 |
| Toxicology ... ... ... ... ... | 22 | 38 | 55 | 73 | 97 | 126 | 152 | 196 | 229 | 257 | 286 | 320 |
| Soil relations ... ... ... ... ... | 23 | 38 | 55 | 74 | 98 | 127 | 153 | 197 | 230 | 257 | 287 | 321 |
| PPLICATION ... ... ... ... ... | 25 | 39 | 56 | 75 | 99 | 128 | 155 | 202 | 231 | 260 | 289 | 323 |
| THER ASPECTS ... ... ... ... ... | | 40 | 57 | 76 | 100 | 129 | 157 | 203 | 232 | 260 | 290 | 325 |
| Organization ... ... ... ... ... | 28 | – | – | 76 | 100 | – | 157 | – | – | – | – | 325 |
| Approvals and legislation ... ... ... | 28 | 40 | – | 76 | – | – | 157 | 203 | 232 | 260 | – | 325 |
| Economics ... ... ... ... ... | 28 | 40 | 57 | 77 | 100 | – | 157 | 204 | 233 | 261 | 290 | 325 |
| Utilization ... ... ... ... ... | 28 | – | 57 | – | 100 | – | – | 204 | 233 | – | 290 | – |
| Miscellaneous ... ... ... ... ... | – | 40 | 57 | – | 100 | 129 | 158 | 204 | 233 | 261 | 290 | 325 |
| UTHOR INDEX ... ... ... ... ... | 327 | | | | | | | | | | | |
| UBJECT INDEX ... ... ... ... ... | 339 | | | | | | | | | | | |
| PECIES INDEX ... ... ... ... ... | 381 | | | | | | | | | | | |

## Abbreviations

| | | | | | |
|---|---|---|---|---|---|
| abs. | abstract | hp | horsepower | ppm. | parts per million |
| a.e. | acid equivalent | in | inch | ppmv. | parts per million by volume |
| a.i. | active ingredient | $in^2$ | square inch | | |
| b.p. | boiling point | i.r. | infra-red | ppmw. | parts per million by weight |
| bu | bushel | kcal | kilocalorie | | |
| °C | degrees Celsius (formerly Centigrade) | kg | kilogramme | pre-em | pre-emergence |
| | | $LD_{50}$ | median lethal dose | p.t.o. | power take off |
| conc. | concentrated | lb | pound | pt | pint |
| concn. | concentration | $lbf/in^2$ | pounds-force per square inch | ref. | references |
| cv. | cultivar(s) | | | r.h. | relative humidity |
| cwt | hundredweight | M | molar concentration | s | second |
| d.b.h. | diameter at breast height | m | metre | sp. | species |
| | | m- | milli-(x $10^{-3}$) | spp. | species (plural) |
| diam. | diameter | $\mu$- | micro (x $10^{-6}$) | ssp. | subspecies |
| d.m. | dry matter | $\mu m$ | micron | t | tonne (Mg) |
| dz | Doppelzentner (= 100 kg) | $m^2$ | square metre | temp. | temperature |
| | | mg | milligramme | t.l.c. | thin-layer chromatography |
| e.c. | emulsifiable concentrate | min | minute | | |
| | | ml | millilitre | u.l.v. | ultra low volume |
| °F | degrees Fahrenheit | mm | millimetre | u.v. | ultra-violet |
| ft | foot | m.p. | melting point | var. | *varietas* |
| $ft^2$ | square foot | N | normal concentration | vol. | volume |
| g | gramme | n | nano-(x $10^{-9}$) | wt | weight |
| gal | gallon | o.m. | organic matter | w.p. | wettable powder |
| g.l.c. | gas-liquid chromatography | oz | ounce | yd | yard |
| h | hour | p. | page | > | more than |
| ha | hectare | post-em | post-emergence | < | less than |
| hkg | hectokilogramme | pp. | pages | ± | with or without |
| | | | | % | percent(age) |

Abbreviations for the names of units are the same in the singular and the plural

## Languages

An initial capital denotes the language of the paper, an initial small letter the language of the summary.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Af | Afrikaans | Fi | Finnish | It | Italian | Ru | Russian |
| Bg | Bulgarian | Nl | Flemish | Ja | Japanese | Sh | Serbo-Croat |
| Cs | Czech | Fr | French | No | Norwegian | Sk | Slovak |
| Da | Danish | De | German | Pl | Polish | Es | Spanish |
| Nl | Dutch | He | Hebrew | Pt | Portuguese | Sv | Swedish |
| En | English | Hu | Hungarian | Ro | Romanian | Tr | Turkish |

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Unless otherwise stated, rates of application for growth-regulator herbicides such as 2,4-D, MCPA, fenoprop, dalapon, the benzoics, etc. are given as the acid equivalent. Rates for other herbicides such as the ureas, carbamates, triazines, etc. are given as the active ingredient. Rates for the bipyridyls refer to the cation, only.

# List of common names and abbreviations used for herbicides and plant growth regulators in *Weed Abstracts*

An asterisk (*) signifies approval by the British Standards Institution (BSI)
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Where the name approved by the WSSA or the I.S.O. differs from that approved by the BSI, the WSSA or I.S.O. name is given in brackets opposite the chemical name, with the appropriate symbol attached.

| | |
|---|---|
| Acrolein† | acrylaldehyde |
| Alachlor*† | α-chloro-2,6-diethyl-*N*-(methoxymethyl)acetanilide |
| Allidochlor* | *N*,*N*-diallylchloroacetamide (CDAA†) |
| Ametryne*† | 4-ethylamino-6-isopropylamino-2-methylthio-1,3,5-triazine |
| Aminotriazole | 3-amino-1,2,4-triazole (amitrole†‡) |
| AMS† | ammonium sulphamate |
| Anisuron* | *N′*-(3,4-dichlorophenyl)-*N′*-(4-methoxybenzoyl)-*N*,*N*-dimethylurea |
| Asulam*†‡ | methyl (4-aminobenzenesulphonyl)carbamate |
| Atraton*‡ | 4-ethylamino-6-isopropylamino-2-methoxy-1,3,5-triazine (atratone†) |
| Atrazine*†‡ | 2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine |
| Aziprotryne* | 2-azido-4-isopropylamino-6-methylthio-1,3,5-triazine |
| Barban*†‡ | 4-chlorobut-2-ynyl *N*-(3-chlorophenyl) carbamate |
| Benazolin*‡ | 4-chloro-2-oxobenzothiazolin-3-ylacetic acid |
| Benfluralin* | *N*-butyl-*N*-ethyl-2,6-dinitro-4-trifluoromethylaniline (benefin†) |
| Bensulide*† | *N*-[2-(*O*,*O*-di-isopropyldithiophosphoryl)ethyl] benzene sulphonamide |
| Bentazon† | 3-isopropyl-2,1,3-benzothiadiazin-4-one 2,2-dioxide |
| Benzadox*† | benzamido-oxyacetic acid |
| Benzthiazuron* | *N*-(benzothiazol-2-yl)-*N*-methylurea |
| Bromacil*†‡ | 5-bromo-6-methyl-3-(1-methyl-n-propyl) uracil |
| Bromofenoxim* | 3,5-dibromo-4-hydroxybenzaldehyde 2,4-dinitrophenyloxime |
| Bromoxynil*†‡ | 3,5-dibromo-4-hydroxybenzonitrile |
| Brompyrazone* | 5-amino-4-bromo-2-phenylpyridazin-3-one |
| Butachlor† | *N*-(butoxymethyl)-α-chloro-2,6-diethylacetanilide |
| Buturon*†‡ | *N*-(4-chlorophenyl)-*N*-isobutynyl-*N*-methylurea |
| Butylate† | *S*-ethyl *N*,*N*-di-isobutyl(thiocarbamate) |
| Carbasulam* | methyl *N*-(4-[methoxycarbamoyl] benzenesulphonyl)carbamate |
| Carbetamide*† | D-*N*-ethyl-2-(phenylcarbamoyloxy) propionamide |
| CDEA† | *N*,*N*-diethylchloroacetamide |
| Chloramben*†‡ | 3-amino-2,5-dichlorobenzoic acid |
| Chloranocryl*‡ | *N*-(3,4-dichlorophenyl) methacrylamide (dicryl†) |
| Chlorazine*† | 2-chloro-4,6-bisdiethylamino-1,3,5-triazine |
| Chlorbromuron*‡ | *N′*-(4-bromo-3-chlorophenyl)-*N*-methoxy-*N*-methylurea |
| Chlorbufam*‡ | 1-methylprop-2-ynyl *N*-(3-chlorophenyl)carbamate |
| Chlordane*† | 1,2,4,5,6,7,10,10-octachloro-4,7,8,9-tetrahydro-4,7-methyleneindane |
| Chlorfenac*‡ | 2,3,6-trichlorophenylacetic acid (fenac†) |
| Chlorfenprop-methyl* | methyl 2-chloro-3-(4-chlorophenyl)propionate |
| Chlorflurazole*‡ | 4,5-dichloro-2-trifluoromethylbenzimidazole |
| Chlorflurecol* | 2-chloro-9-hydroxyfluorene-9-carboxylic acid |
| Chlormequat*‡ | 2-chloroethyl-trimethyl-ammonium chloride (CCC†) |
| Chloropon*‡ | 2,2,3-trichloropropionic acid |
| Chloroxuron*†‡ | *N′*-4-(4-chlorophenoxy)phenyl-*N*,*N*-dimethylurea |
| Chloroxynil* | 3,5-dichloro-4-hydroxybenzonitrile |
| Chlorpropham*†‡ | isopropyl *N*-(3-chlorophenyl)carbamate |
| Chlorthal-dimethyl*‡ | 2,3,5,6-tetrachloroterephthalic acid dimethyl ester (DCPA†) |
| Chlorthiamid | 2,6-dichlorothiobenzamide |
| Chlortoluron* | *N′*-(3-chloro-4-methylphenyl)-*N*,*N*-dimethylurea |
| 4-CPA*†‡ | 4-chlorophenoxyacetic acid |
| Cyanazine† | 2-chloro-4-(1-cyano-1-methylethylamino)-6-ethylamino-1,3,5-triazine |
| Cycloate† | *N*-cyclohexyl-*N*-ethyl-*S*-ethyl(thiocarbamate) |
| Cycluron*†‡ | *N′*-cyclo-octyl-*N*,*N*-dimethylurea |
| Cyprazine† | 2-chloro-4-cyclopropylamino-6-isopropylamino-1,3,5-triazine |
| Cypromid*†‡ | 3,4-dichlorocyclopropanecarboxanilide |
| 2,4-D*† | 2,4-dichlorophenoxyacetic acid |
| Dalapon*† | 2,2-dichloropropionic acid |
| Dazomet*†‡ | 3,4,5,6-tetrahydro-3,5-dimethyl-1,3,5-thiadiazine-2-thione |
| 2,4-DB*† | 4-(2,4-dichlorophenoxy)butyric acid |
| DCU† | dichloral urea |
| Delachlor† | α-chloro-*N*-(isobutoxymethyl)-2,6-acetoxylidide |
| 2,4-DEP† | tris-(2,4-dichlorophenoxyethyl)phosphite |
| 2,4-DES | 2-(2,4-dichlorophenoxy)ethyl hydrogen sulphate (sesone†, disul‡) |
| Desmetryne*† | 4-isopropylamino-6-methylamino-2-methylthio-1,3,5-triazine (desmetryn‡) |
| Di-allate*‡ | *S*-2,3-dichloroallyl *N*,*N*-di-isopropyl(thiocarbamate) (diallate†) |
| Dibutalin† | 2,6-dinitro-*N*-s-butyl-4-t-butylaniline |
| Dicamba*†‡ | 3,6-dichloro-2-methoxybenzoic acid |
| Dichlobenil*†‡ | 2,6-dichlorobenzonitrile |
| Dichlone*† | 2,3-dichloro-1,4-naphthaquinone |
| Dichlormate† | 3,4-dichlorobenzyl *N*-methylcarbamate |
| Dichlorprop*†‡ | (±) 2-(2,4-dichlorophenoxy)propionic acid |
| Difenoxuron*‡ | *N′*-4-(4-methoxyphenoxy)phenyl-*N*,*N*-dimethylurea |
| Dimethazone* | 4,5-dimethoxy-2-phenylpyridazin-3(2*H*)-one |
| Dimexan* | di(methoxythiocarbonyl)disulphide (dimexano‡) |
| Dinitramine† | *N′*,*N″*-diethyl-2,6-dinitro-4-trifluoromethyl-*m*-phenylenediamine |
| Dinofenate* | 2,4-dinitrophenyl 2,4-dinitro-6-*s*-butylphenyl carbonate |
| Dinoprop*‡ | 2-isopropyl-3-methyl-4,6-dinitrophenol |
| Dinosam*† | 2-(1-methyl-n-butyl)-4,6-dinitrophenol |
| Dinoseb*†‡ | 2-(1-methylpropyl)-4,6-dinitrophenol |
| Dinoterb*‡ | 4,6-dinitro-2-t-butylphenol |
| Diphenamid*†‡ | *N*,*N*-dimethyl-αα-diphenylacetamide |
| Diphenatrile† | diphenylacetonitrile |

| | | |
|---|---|---|
| dipropalin† | 2,6-dinitro-*N,N*-dipropyl-4-methylaniline | |
| diquat*†‡ | 9,10-dihydro-8a, 10a-diazoniaphenanthrene | |
| diuron*†‡ | *N′*-(3,4-dichlorophenyl)-*N,N*-dimethylurea | |
| DMPA† | *O*-(2,4-dichlorophenyl) *O′*-methyl *N*-isopropyl phosphoramidothioate | |
| DNOC*†‡ | 2-methyl-4,6-dinitrophenol | |
| DSMA† | disodium methylarsonate | |
| endothal*‡ | 7-oxabicyclo[2,2,1] heptane-2,3-dicarboxylic acid | (endothall†) |
| EPTC*† | *S*-ethyl *N,N*-dipropyl(thiocarbamate) | |
| erbon†‡ | 2-(2,4,5-trichlorophenoxy)ethyl 2,2-dichloropropionate | |
| etinofen*‡ | 2-ethoxymethyl-4,6-dinitrophenol | |
| EXD† | di(ethoxythiocarbonyl) disulphide | |
| fenoprop*‡ | (±) 2-(2,4,5-trichlorophenoxy)propionic acid | (silvex†) |
| fenuron*†‡ | *N,N*-dimethyl-*N′*-phenylurea | |
| fenuron-TCA† | *N,N*-dimethyl-*N′*-phenyluronium trichloroacetate | |
| fluchloralin† | *N*-(2-chloroethyl)-2,6-dinitro-*N*-propyl-4-(trifluoromethyl)aniline | |
| flumezin* | 2-methyl-4-(3-trifluoromethylphenyl)-tetrahydro-1,2,4-oxadiazine-3,5-dione | |
| fluometuron*†‡ | *N′*-(3-trifluoromethylphenyl)-*N,N*-dimethylurea | |
| fluorodifen* | 4-nitrophenyl 2-nitro-4-trifluoromethylphenyl ether | |
| flurecol*† | 9-hydroxyfluorene-9-carboxylic acid | (flurenol†) |
| fluromidine* | 6-chloro-2-trifluoromethyl-3*H*-imidazo [4,5-*b*] pyridine | |
| GA | gibberellic acid | |
| glyphosate† | *N*-(phosphonomethyl)glycine | |
| haloxydine | 3,5-dichloro-2,6-difluoro-4-hydroxypyridine | |
| hexaflurate† | potassium hexafluoroarsenate | |
| IAA | indolylacetic acid | |
| IBA | indolylbutyric acid | |
| ioxynil*†‡ | 4-hydroxy-3,5-di-iodobenzonitrile | |
| ipazine*†‡ | 2-chloro-4-diethylamino-6-isopropylamino-1,3,5-triazine | |
| isocil*†‡ | 5-bromo-3-isopropyl-6-methyluracil | |
| isonoruron* | *N′*-[1 or 2-(hexahydro-4,7-methanoindanyl]-*N,N*-dimethylurea | |
| isopropalin*† | 4-isopropyl-2,6-dinitro-*N,N*-dipropylaniline | |
| karbutilate† | *m*-(3,3-dimethylureido)phenyl t-butylcarbamate | |
| lenacil*†‡ | 3-cyclohexyl-6,7-dihydro-1*H*-cyclopentapyrimidine-2,4-(3*H*,5*H*)dione | |
| linuron*†‡ | *N′*-(3,4-dichlorophenyl)-*N*-methoxy-*N*-methylurea | |
| MAMA† | monoammonium methylarsonate | |
| MCPA*†‡ | 4-chloro-2-methylphenoxyacetic acid | |
| MCPB*†‡ | 4-(4-chloro-2-methylphenoxy)butyric acid | |
| mecoprop*†‡ | (±) 2-(4-chloro-2-methylphenoxy)propionic acid | |
| medinoterb*‡ | 4,6-dinitro-5-methyl-2-t-butylphenol | |
| metflurazone | 4-chloro-5-(dimethylamino)-2-(3-trifluoromethylphenyl)pyridazin -3(2*H*)-one | |
| methabenzthiazuron* | *N*-(benzothiazol-2-yl)-*N,N′*-dimethylurea | |
| metham*† | *N*-methyldithiocarbamic acid | (metam-sodium [=Na salt]‡) |
| methazole† | 2-(3,4-dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione | |
| methiuron* | *N,N*-dimethyl-*N′*-(3-methylphenyl)thiourea | |
| methometon*† | 2-methoxy-4,6-bis(3-methoxypropylamino)-1,3,5-triazine | |
| methoprotryne*‡ | 4-isopropylamino-6-(3-methoxypropylamino)-2-methylthio-1,3,5-triazine | |
| metobromuron*†‡ | *N′*-(4-bromophenyl)-*N*-methoxy-*N*-methylurea | |
| metoxuron* | *N′*-(3-chloro-4-methoxyphenyl)-*N,N*-dimethylurea | |
| metribuzin† | 4-amino-6-t-butyl-3-(methylthio)-1,2,4-triazin-5(4*H*)-one | |
| MH† | 1,2,3,6-tetrahydro-3,6-dioxopyridazine | |
| molinate† | *S*-ethyl *N,N*-hexamethylene(thiocarbamate) | |
| monalide*‡ | *N*-(4-chlorophenyl)-2,2-dimethylvaleramide | |
| monolinuron*†‡ | *N′*-(4-chlorophenyl)-*N*-methoxy-*N*-methylurea | |
| monuron*†‡ | *N′*-(4-chlorophenyl)-*N,N*-dimethylurea | |
| monuron-TCA† | *N′*-(4-chlorophenyl)-*N,N*-dimethyluronium trichloroacetate | |
| morfamquat*‡ | 1,1′-bis(3,5-dimethylmorpholinocarbonylmethyl)-4,4′-bipyridylium | |
| MSMA† | monosodium methylarsonate | |
| NAA | naphthylacetic acid | |
| napropamide† | *N,N*-diethyl-2-(α-naphthoxy)propionamide | |
| naptalam*†‡ | *N*-1-naphthylphthalamic acid | |
| neburon*† | *N*-butyl-*N′*-(3,4-dichlorophenyl)-*N*-methylurea | |
| nitralin† | 4-(methylsulphonyl)-2,6-dinitro-*N,N*-dipropylaniline | |
| nitrofen*†‡ | 2,4-dichlorophenyl 4-nitrophenyl ether | |
| noruron*‡ | *N′*-(hexahydro-4,7-methanoindan-5-yl)-*N,N*-dimethylurea | (norea†) |
| oryzalin† | 3,5-dinitro-$N^4$,$N^4$-dipropylsulphanilamide | |
| oxapyrazone* | (2-hydroxyethyl)dimethylammonium (4-bromo-2-phenyl-3-pyridazon-5-yl)oxamate | |
| paraquat*†‡ | 1,1′-dimethyl-4,4′-bipyridylium | |
| PCP† | pentachlorophenol | |
| pebulate*†‡ | *S*-propyl *N*-butyl-*N*-ethyl(thiocarbamate) | |
| pentanochlor*‡ | *N*-(3-chloro-4-methylphenyl)-2-methylpentanamide | (solan†) |
| phenmedipham*† | 3-(methoxycarbonylamino)phenyl *N*-(3′-methylphenyl)carbamate | |
| picloram*†‡ | 4-amino-3,5,6-trichloropicolinic acid | |
| profluralin† | *N*-(cyclopropylmethyl)-2,6-dinitro-*N*-propyl-4-trifluoromethylaniline | |
| prometon*‡ | 4,6-bisisopropylamino-2-methoxy-1,3,5-triazine | (prometone†) |
| prometryne*† | 4,6-bisisopropylamino-2-methylthio-1,3,5-triazine | |
| pronamide* | 3,5-dichloro-*N*-(1,1-dimethylpropynyl)benzamide | |
| propachlor*†‡ | α-chloro-*N*-isopropylacetanilide | |
| propanil*†‡ | *N*-(3,4-dichlorophenyl) propionamide | |
| propazine*†‡ | 2-chloro-4,6-bisisopropylamino-1,3,5-triazine | |
| propham*†‡ | isopropyl *N*-phenylcarbamate | |
| proxan* | isopropyl xanthic acid | (IPX†, proxan-sodium [= Na salt]†) |
| prynachlor† | 2-chloro-*N*-(1-methyl-2-propynyl)acetanilide | |
| pyrazone* | 5-amino-4-chloro-2-phenylpyridazin-3(2*H*)-one | (pyrazon†) |
| pyrielor† | 2,3,5-trichloro-4-pyridinol | |
| sebuthylazine* | 2-chloro-4-ethylamino-6-s-butylamino-1,3,5-triazine | |
| siduron*†‡ | *N*-(2-methylcyclohexyl)-*N′*-phenylurea | |
| simazine*†‡ | 2-chloro-4,6-bisethylamino-1,3,5-triazine | |
| simeton* | 4,6-bisethylamino-2-methoxy-1,3,5-triazine | (simetone†) |

| | | |
|---|---|---|
| metryne*† | 4,6-bisethylamino-2-methylthio-1,3,5-triazine | (simetryn‡) |
| MA | sodium monochloroacetate | |
| lfallate*‡ | 2-chloroallyl *N,N*-diethyldithiocarbamate | (CDEC†) |
| vep† | methyl *N*-(3,4-dichlorophenyl)carbamate | |
| 4,5-T*†‡ | 2,4,5-trichlorophenoxyacetic acid | |
| 4,5-TB*‡ | 4-(2,4,5-trichlorophenoxy)butyric acid | |
| ,3,6-TBA†‡ | 2,3,6-trichlorobenzoic acid | |
| CA† | trichloroacetic acid | (sodium trichloroacetate [= Na salt]†) |
| rbacil† | 5-chloro-6-methyl-3-t-butyluracil | |
| rbucarb* | 2,6-di-t-butyl-*p*-tolyl *N*-methylcarbamate | (terbutol†) |
| rbuthylazine* | 2-chloro-4-ethylamino-6-t-butylamino-1,3,5-triazine | |
| rbutryne* | 4-ethylamino-2-methylthio-6-t-butylamino-1,3,5-triazine | (terbutryn†) |
| 4,5-TES† | 2-(2,4,5-trichlorophenoxy)ethyl hydrogen sulphate | |
| IBA | 2,3,5-triiodobenzoic acid | |
| i-allate*‡ | *S*-2,3,3-trichloroallyl *N,N*-di-isopropyl(thiocarbamate) | (triallate†) |
| icamba*†‡ | 3,5,6-trichloro-2-methoxybenzoic acid | |
| ietazine*† | 2-chloro-4-diethylamino-6-ethylamino-1,3,5-triazine | |
| ifluralin*†‡ | 2,6-dinitro-*N,N*-dipropyl-4-trifluoromethylaniline | |
| imeturon*† | $N^4$-(4-chlorophenyl)-*O,N,N*-trimethylisourea | |
| rnolate† | *S*-propyl *N,N*-dipropyl(thiocarbamate) | |

# ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

| *Page* | *Abstract* | *Line* | |
|---|---|---|---|
| **Volume 21** | | | |
| 449 | 2818 | 1 | For 'Swalwall, J.G.' read 'Swalwell, J.G.' |
| 450 | 2818 | 9 | For 'of the chemical' read 'of residual herbicides which had been applied at drilling' |
| **Volume 22** | | | |
| 1 | 4 | 9 | For 'us' read 'use' |
| 1 | 9 | 9-13 | For 'Applications of tri-allate. . . . Banba' read 'Applications of granular tri-allate at 10-20 lb/acre made before sowing and soil incorporated are preferred to post-em. applications of barban which have proved toxic to wheat cvs. Quern and Atle and barley cvs. Emma, Hunter, Nessa and Banba' |
| 3 | 26 | 33 | For 'spp.' read 'ssp.' |
| 5 | 45 | 8 | For a comma, substitute a semi-colon |
| 7 | 68 | 3 | For '**valuw**' read '**value**' |
| 9 | 87 | 4 | For 'Fytiatie' read 'Fytiatrie' |
| 10 | 95 | 1 | For 'Almeida, F.A. de' read 'Almeida, F.S. de' |
| 12 | 117 | 9 | For 'Columbia' read 'Colombia' |
| 13 | 131 | 12 | For 'differences' read 'difference' |
| 13 | 132 | 9 | For 'p' read 'P' |
| 18 | 178 | 17 | For '29.6' read '29.6%' |
| 19 | 190 | 3 | For '*Internation* ' read '*International*' |
| 19 | 191 | 7 | For 'reduction d.m.' read 'reduction in d.m.' |
| 23 | 226 | 21 | For 'Gluthione' read 'Glutathione' |
| 23 | 226 | 23 | For 'gluthathione' read 'glutathione' |
| 24 | 237 | 7 | For 'Tri-alalte' read 'Tri-allate' |
| 29 | 291 | 5 | After 'translocated' insert 'and' |
| 30 | 297 | 4-5 | Delete from the end of line 4 'weed' and from the beginning of line 5, 'control'. |
| 35 | 353 | 14 | For 'but the' read 'but then' |
| 35 | 358 | 7 | For 'Tigidae' read 'Tingidae' |
| 43 | 410 | 11 | For 'a.m.' read 'o.m.' |
| 45 | 432 | 5&10 | For 'trifluraline' read 'trifluralin' |
| 46 | 439 | 9 | For 'metrizuzin' read 'metribuzin' |
| 56 | 541 | 3 | For '**by paraquat**' read '**of paraquat**' |
| 57 | 548 | 10 | For 'polar' read 'poplar' |
| 63 | 597 | 1 | For 'MARQUISE' read 'MARQUISS' |
| 94 | 901 | 15-16 | The sentence should read: 'When compared with previously reported herbicide activity on the proteinase activity, those herbicides which inhibited dipeptidase activity did not necessarily affect proteinase activity to the same degree' |
| 95 | 904 | 4 | After '*V.I.*' insert '*Lenina*' |
| 107 | 1008 | 10 | For '*Avona*' read '*Avena*' |
| 109 | 1027 | 5 | After 'Volume' insert '26' |
| 110 | 1034 | 7 | For 'salisfy' read 'salsify' |
| 110 | 1036 | 4 | After 'British Crop Protection' insert 'Council' |
| 111 | 1049 | 10 | For 'mecocrop' read 'mecoprop' |
| 127 | 1207 | 17 | For '-6-methylthic-' read '-6-methylthio-' |
| 133 | 1239 | 9 | For '*rotundas*' read '*rotundus*' |
| 133 | 1245 | 20 | For 'Dicuron' read 'Dicuran' |
| 134 | 1256 | 10 | For '*dichtomiflorum*' read '*dichotomiflorum*' |
| 137 | 1281 | 11 | For '-*N,N*α-' read '-*N,N,*α-' |
| 139 | 1302 | 2 | For '**broome**' read '**brome**' |
| 139 | 1302 | 7 | For 'mic-' read 'mid-' |
| 147 | 1375 | 5 | For '*esculentis*' read '*esculentus*' |
| 161 | 1514 | 14 | For 'tricuron' read 'Tricuron' |
| 169 | 1594 | 8 | For '*pinochotii*' read '*pinchotii*' |
| 177 | 1673 | 21 | For 'dictotyledons' read 'dicotyledons' |
| 186 | 1770 | 13 | For 'dhurin' read 'dhurrin' |
| 193 | 1847 | 11 | For 'cyana' read 'cyano' |
| 201 | 1923 | 13 | For 'dichlobenyl' read 'dichlobenil' |
| 212 | 2030 | 6 | For 'culture griseochromogenes' read 'culture solution of *Streptomyces griseochromogenes*' |
| 223 | 2134 | 1 | For 'Parker, C.' read 'Leakey, R.R.B.' |
| 227 | 2169 | 31 | For 'C-19 alone at 0.75-4 kg/ha' read 'C19490 alone at 0.75-4kg/ha' |
| 247 | 2339 | 12 | For '2.2-4.4' read '2.2-4.5' |
| 247 | 2339 | 13 | For 'the higher rates' read '4.5 kg/ha' |
| 259 | 2447 | 1 | For 'Dzuiba' read 'Dziuba' |
| 301 | 2822 | 10 | For 'γ-chloro-' read 'α-chloro-' |
| 312 | 2937 | 3 | After '(**Cav.**) **Trin.**' add '**ex Steudel**)' |
| 322 | 3035 | 5 | For '$^{32}$P-amiprophos (*O-ethyl O'-(2-nitro-p-*' read '$^{32}$P-amiprophos (*O*-ethyl *O'*-(2-nitro-*p*-' |